

Appl. No. 10/692,613
Amendment dated February 14, 2006
Reply to Office action of December 30, 2005
Attorney Docket K-2043

Amendments to the Specification:

Please replace Paragraph [0022] with the following:

[0022] Returning to Figure 2, insert 12A has a first end 26 and a second opposed end 28, and at least one cutting edge 30 spanning ends 26 and 28. A first corner 32 is formed at the juncture of cutting edge 30 and first end 26, and a second corner 34 formed at the juncture of cutting edge 30 and second end 28. Each cutting edge 30 has a first tapered section 36 extending from corner 32 part way to corner 34, and a second tapered section 38 extending from the second corner 34 part way to first corner 32 forming a highpoint 43 therebetween. In the preferred embodiment, taper is imparted by curvature of a single or constant radius. This produces the convex curved configuration shown in Figure 2. However, and as illustrated in Figure 5, it would also be possible to utilize convex curved configuration is that of a variable radius curve.

Please replace Paragraph [0024] with the following:

[0024] Tool 10 is fabricated to a predetermined dimensional tolerance, as is customary in manufacturing. Of critical interest to the present invention, each pocket 12 displays a maximum radial runout dimension (not separately shown). Taper of tapered sections 36 and 38 is of magnitude and configuration which assure that depth of cutting of the work piece performed by either tapered section 36 or 38 will never exceed in magnitude the predetermined dimensional tolerance. Therefore, taper of tapered sections 36 and 38 each establish radial runout compensation for their respective halves or sections of their associated insert 12. Maximum outward radial displacement of a corner 32 or 34 of an insert 12 from rotational axis 16 is less than the magnitude of the predetermined manufacturing tolerance. Alternatively stated, radial runout compensation dimension 42, which is defined as the distance between the highpoint 43 and the corner 32 or 34 of an insert 12, is greater than the magnitude of the predetermined manufacturing tolerance. As shown in Figure 2, the first and second corners 32, 34 of each insert 12 lie within a nominal cutting diameter when tool 10 is rotated about the rotational axis 16. In addition, the highpoint 43 of cutting insert 12a and

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corner 32 of cutting insert 12b are substantially circumferentially aligned with each other when tool 10 is rotated about the rotational axis 16. Similarly, the highpoint 43 of cutting insert 12b and corner 34 of cutting insert 12a are substantially circumferentially aligned with each other when tool 10 is rotated about the rotation axis 16. Accordingly, maximum penetration of cutting edge 30 into the work piece is limited to less than the maximum radial runout dimension characteristic of pockets 20 by fabrication thereof when tool 10 is rotated and brought to bear laterally against a work piece.